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CLAIMS

What is claimed is:

- A method for allowing multiple applications to cooperatively
 access a resource, said method comprising the steps of:
 - a) registering a callback instruction for a first application using said resource;
 - b) invoking said callback instruction to notify said first application of a request from a second application for said resource; and
 - c) yielding said resource to said second application provided said first application grants said request.
 - 2. The method as recited in Claim 1 wherein said resource comprises interface circuitry coupled to multiple ports.
 - The method as recited in Claim 1 further comprising the step of: registering said first application as a passive application, wherein a passive application defines said callback instruction.
 - 4. The method as recited in Claim 1 wherein said step b) is performed responsive to said request from said second application.
 - 5. The method as recited in Claim 1 further comprising the step of: providing notice to said first application that said second application is finished using said resource, said notice indicating said resource is available.

- 6. The method as recited in Claim 1 wherein said step c) further comprises the steps of:
 - c1) closing said resource for said first application; and
- c2) conducting procedures for shutting down said first application.
- 7. The method as recited in Claim 1 wherein a response granting said request is a Boolean true, and wherein a response denying said request is a Boolean false.

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- 8. A method for allowing multiple applications to cooperatively access a serial port, said method comprising the steps of:
- a) opening said serial port for a first application, wherein said step of opening comprises registering a callback instruction for said first application;

b) receiving a request for said serial port from a second application;

- c) invoking said callback instruction responsive to said request, wherein said step of invoking comprises the steps of:
 - c1) sending notice to said first application of said request; and
 - c2) receiving from said first application a response to said notice;

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d) yielding said serial port to said second application provided said response from said first application grants said request and otherwise maintaining said serial port for said first application.

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- 9. The method as recited in Claim 8 further comprising the step of: registering said first application as a passive application.
- 10. The method as recited in Claim 8 wherein said step d) further5 comprises the step of:

receiving from said first application a response denying said request.

- 11. The method as recited in Claim 8 wherein said step d) further comprises the step of:
- returning an error message to said second application when said serial port is not yielded to said second application.
- 12. The method as recited in Claim 8 further comprising the step of:
 providing notice to said first application that said second application is
 finished using said serial port, said notice indicating said serial port is available.
- 13. The method as recited in Claim 8 wherein said step c) further comprises the steps of:
 - c3) closing said serial port for said first application; and
 - c4) conducting procedures for shutting down said first application.
- 14. The method as recited in Claim 8 wherein a response granting said request is a Boolean true, and wherein a response denying said request is a Boolean false.

- 15. A portable computer system comprising:
- a bus;
- a serial port coupled to said bus;
- a processor coupled to said bus; and

a memory coupled to said bus, said memory comprising instructions for implementing a method for allowing multiple applications residing on said computer system to cooperatively access said serial port, said method comprising the steps of:

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- a) opening said serial port for a first application, wherein said step of opening comprises registering a callback instruction for said first application;
 - b) receiving a request for said serial port from a second application;
- c) invoking said callback instruction responsive to said request, wherein said step of invoking comprises the steps of:

c1) sending notice to said first application of said request; and

c2) receiving from said first application a response to said notice;

and

- d) yielding said serial port to said second application provided said response from said first application grants said request and otherwise maintaining said serial port for said first application.
- 16. The computer system of Claim 15 wherein said method further comprises the step of:

registering said first application as a passive application.

receiving f

17. The computer system of Claim 15 wherein said step d) of said method further comprises the step of:

receiving from said first application a response denying said request.

18. The computer system of Claim 15 wherein said step d) of said method further comprises the step of:

returning an error message to said second application when said serial port is not yielded to said second application.

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19. The computer system of Claim 15 wherein said method further comprises the step of:

providing notice to said first application that said second application is finished using said serial port, said notice indicating said serial port is available.

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- 20. The computer system of Claim 15 wherein said step c) of said method further comprises the steps of:
 - c3) closing said serial port for said first application; and
 - c4) conducting procedures for shutting down said first application.

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21. The computer system of Claim 15 wherein a response granting said request is a Boolean true, and wherein a response denying said request is a Boolean false.